


2016 Standard Specifications for Road and Bridge Construction



**Prepared by
Louisville Metro Public Works
May 22, 2018**

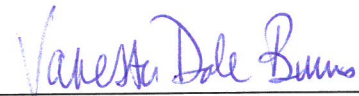
Reviewed and Approved by



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Date



Vanessa D. Burns
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Date

Revisions

October 7, 2016

SECTION 02400 - CURB & GUTTER,
DRIVEWAYS & SIDEWALKS;
2.2.2 HISTORIC MIX MATERIALS

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2.2.2 HISTORIC MIX MATERIALS

2.2.2 MATERIALS

Materials used in this construction shall meet Class A concrete mix conforming to Kentucky Standard Specification Section 601 with the following exceptions:

1. Approved coarse aggregate shall be #8 or #9m river gravel. The coarse aggregate shall be at least 50% of the total aggregate in the mix with river sand being the fine aggregate.
2. Achieve a "historic" weathered finish by use of a water based, pigmented, top surface retarder resulting in a surface depth etch of up to 1/8 inch. Apply and remove the surface retarder in accordance with manufacturer's recommendations.
3. Placement and removal of the surface retarder shall be considered incidental to the placed concrete.

2.2.3 EXECUTION

Construction shall meet the requirements of the Louisville Metro Standard Drawings together with Section 505 – Concrete Sidewalks, Steps and Entrance Pavements; *KYTC Standard Specifications for Road and Bridge Construction*.

Complete floating and troweling until all the surface bleed water disappears. Using an ordinary, low-pressure garden sprayer, uniformly apply retarder to the surface without puddling.

Cover the treated surface with plastic sheeting (preferably black) or continuously-wetted burlap until the retarded paste is to be removed.

To expose the aggregate, direct a jet of water over the surface while scrubbing with a coarse floor brush to remove the retarded paste. Power washing is more efficient and should be used when possible.

Test a small area to determine the depth of retardation before proceeding with the rest of the surface. If the depth is excessive, wait a while before washing.

2.3 MISCELLANEOUS

2.3.1 HANDRAILS

Handrails shall conform to requirements of Section 720 of the *KYTC Standard Specification for Road and Bridge Construction*.

2.3.2 ASPHALT EXPANSION JOINT FILLER

Asphalt expansion joint filler material shall be in accordance with Section 807 of the *KYTC Standard Specification for Road and Bridge Construction*, 2012 or latest revision. Material shall be approximately 1/2 inch in thickness and a width and depth equal to those of the incidental structure.

2.3.3 CURING MATERIALS

White pigmented liquid membrane curing compound, PE film, or water for curing shall meet the requirements of Section 601 and 823 of the KYTC *Standard Specifications for Road and Bridge Construction*.

2.3.4 INSULATION BLANKET

In cold weather operations, insulated blankets must retain or supply moisture and maintain the temperature at the outermost surfaces of concrete above 45° F for at least 72 hours and above 40° F for at least an additional 24 hours.

2.3.5 POROUS BACKFILL AND WEEP HOLES

Porous backfill material and drain pipes for weep holes for retaining walls shall conform to requirements of Section 703 of the KYTC *Standard Specifications for Road and Bridge Construction*.

2.3.6 PORTLAND CEMENT

Type I, CSA normal, ASTM C150 *Standard Specification for Portland Cement*.

2.3.7 REINFORCEMENT

A. Reinforcing Bars

Reinforcing bars shall conform to the requirements Section 811, Grade 60 of the KYTC *Standard Specifications for Road and Bridge Construction*, 2012 or latest revision.

B. Welded Wire Fabric

Wire mesh reinforcement shall be minimum 6 x 6, 10 Ga. shall conform to the requirements of Section 811 of KYTC *Standard Specifications for Road and Bridge Construction*, 2012 or latest revision.

2.3.8 AGGREGATE BASE MATERIAL

Aggregate base materials for foundation support shall be Dense Graded Aggregate, compacted into place.

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